Product data sheet

Specifications



Discontinued - Service only

Analog input module, Modicon Premium, 8 high level inputs with common point, 12 bits conversion, 270mA at 5VDC

TSXAEY800

Discontinued on: Dec 2, 2020

To be end-of-service on: Dec 31, 2026

Product availability: Non-Stock - Not normally stocked in distribution facility

Main

Range of Product	Modicon Premium Automation platform
Product or Component Type	Analog input module
Input level	High level
Analogue input number	8
Analogue input type	Current 0...20 mA Current 4...20 mA Voltage +/- 10 V Voltage 0...10 V Voltage 0...5 V Voltage 1...5 V
Analog/digital conversion	12 bits

Complementary

Nominal read cycle time	27 ms
Fast read cycle time	3 ms + 3 ms x number of channels used
Measurement error	0.15 % of full scale 0...5 V 25 °C 0.15 % of full scale 1...5 V 25 °C 0.19 % of full scale +/- 10 V 25 °C 0.19 % of full scale 0...10 V 25 °C 0.22 % of full scale +/- 10 V 0...60 °C 0.22 % of full scale 0...10 V 0...60 °C 0.22 % of full scale 0...5 V 0...60 °C 0.22 % of full scale 1...5 V 0...60 °C 0.25 % of full scale 0...20 mA 25 °C 0.25 % of full scale 4...20 mA 25 °C 0.41 % of full scale 0...20 mA 0...60 °C 0.41 % of full scale 4...20 mA 0...60 °C
Isolation between channels and bus	1000 Vrms
Isolation between channels and ground	1000 Vrms
Isolation between channels	Common point
Common mode between channels	None
Input overvoltage protection	-15…15 V at state 0 250 Ohm -30…30 V at state 1 250 Ohm
Electrical connection	1 connector SUB-D 25
Overcurrent	-30…30 mA at state 1 250 kOhm
Marking	CE

Price is “List Price” and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Current consumption	270 mA 5 V DC
Module format	Standard
Product Weight	0.68 lb(US) (0.31 kg)

Environment

Standards	IEC 1131
Product Certifications	DNV RINA GL BV LR RMRS ABS
Ambient Air Temperature for Operation	32…140 °F (0…60 °C)
Ambient Air Temperature for Storage	-13…158 °F (-25…70 °C)
Relative Humidity	10…95 % without condensation for operation 5…95 % without condensation for storage
Operating altitude	0...6561.68 ft (0...2000 m)
Protective treatment	TC
IP Degree of Protection	IP20
Pollution degree	2

Ordering and shipping details

Category	US1PC2222558
Discount Schedule	PC22
GTIN	3389110747638
Returnability	No

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	2.165 in (5.500 cm)
Package 1 Width	7.087 in (18.000 cm)
Package 1 Length	10.236 in (26.000 cm)
Package weight(Lbs)	15.697 oz (445.000 g)
Unit Type of Package 2	S02
Number of Units in Package 2	4
Package 2 Height	5.906 in (15.000 cm)
Package 2 Width	11.811 in (30.000 cm)
Package 2 Length	15.748 in (40.000 cm)
Package 2 Weight	4.524 lb(US) (2.052 kg)

Contractual warranty

Warranty (in months)	18

Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

Environmental Data explained >

How we assess product sustainability >

Use Longer

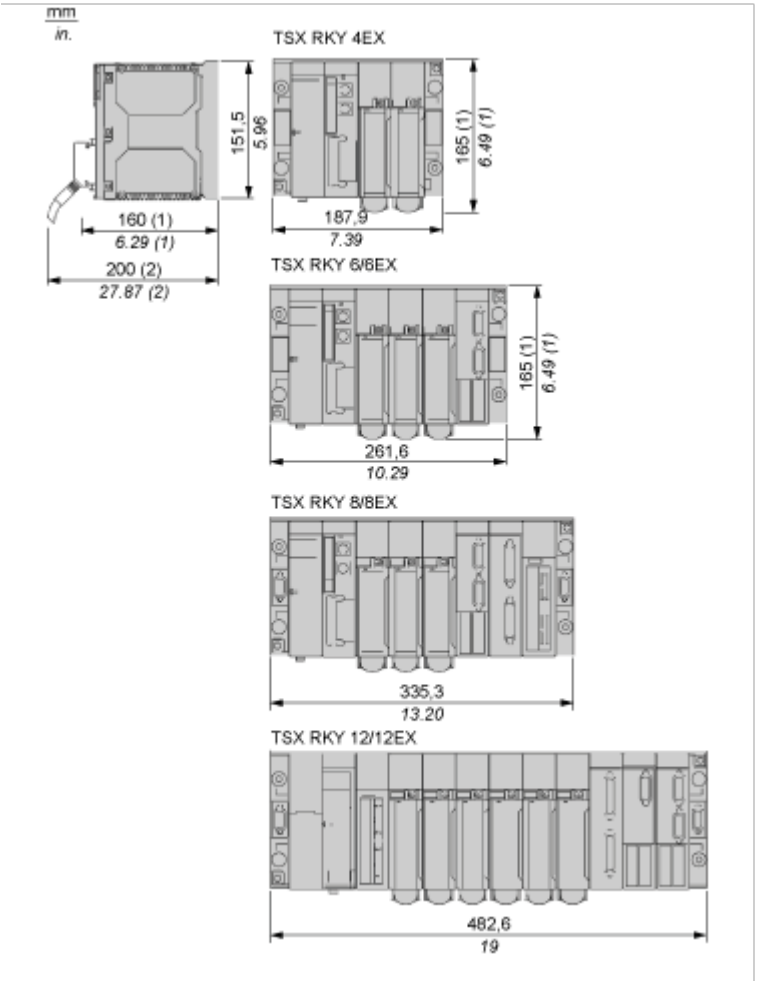
Lifetime extension

Repair	No

Dimensions Drawings

Standard and Extendable Racks for Modules Mounting

Dimensions of Modules and Racks

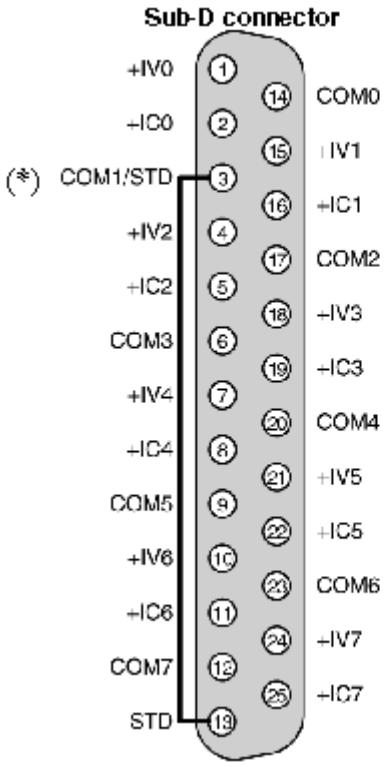


(**1**) With screw terminal block modules.
(**2**) Maximum depth for all types of modules and their associated connectors.

Connections and Schema

Analog Input Module (8-Channel, Voltage/Current)

Connector Pin Assignment



+IVx + pole voltage input for channel x

+ICx + pole current input for channel x

COMx - pole voltage or current input for channel x

(*) STD The strap between pins 3 and 13 enables any removal of the connector to be detected.

NOTE: The COMx pins are connected internally in the module.